

AMENDMENTS TO THE CLAIMS

Replace the claims with the following rewritten listing:

1. – 79. (Cancelled)

80. (New) Method for treatment of a fluid quantity including chemical reacting means such as combustible materials above a certain minimum quantity in a high heat capacity catalytic device, said method comprising:

entering said fluid quantity into the catalytic device through an inlet,

controlling a temperature in one or more passage sections of said catalytic device including at least one reaction passage section,

establishing said high heat capacity by high mass of the device in relation to mass flow of the fluid, said device including heat transferring rods, plates and/or substantially parallel pipes at a number between 20 and 5000, and

emitting the treated fluid quantity from the catalytic device through an outlet.

81. (New) Method according to claim 80 wherein said at least one reaction passage sections heat exchange with a main heat transfer passage section, and/or where said at least one reaction passage sections heat exchange with one or more preceding inlet passage sections and/or one or more succeeding outlet passage sections.

82. (New) Method according to claim 80 wherein the fluid quantity is directed through the succeeding passage sections in counterflow.

83. (New) Catalytic device for treatment of a fluid quantity including chemical reacting means such as combustible materials above a certain minimum quantity, said device comprising:

at least one inlet and outlet for said fluid quantity, and

one or more passage sections including at least one reaction passage section comprising catalytic material of one or more kinds,

integrated heat transfer means for controlling temperature in one or more of said at least one passage sections,

wherein said integrated heat transfer means is configured to control the temperature by high heat capacity established by high mass of the device in relation to mass flow of the fluid, and

wherein said integrated heat transfer means includes heat transferring rods, plates and/or substantially parallel pipes at a number between 20 and 5000.

84. (New) Catalytic device according to claim 83, wherein said catalytic device comprises at least two passage sections.

85. (New) Catalytic device according to claim 83, wherein said device includes at least one outer layer of insulating.

86. (New) Catalytic device according to claim 84, wherein said integrated heat transfer means include positioning of said passage sections in order to form at least one internal heat exchanger with mutual heat exchange between the sections.

87. (New) Catalytic device according to claim 84, wherein said at least one reaction passage sections establishes a heat exchanger with a main heat transfer passage section, and/or said at least one reaction passage sections establishes a heat exchanger with one or more preceding inlet passage sections and/or one or more succeeding outlet passage sections.

88. (New) Catalytic device according to claim 87, wherein said reaction passage section is positioned above, alongside or outside said main heat transfer passage section by surrounding said section, said reaction passage section heat exchanges with said main heat transfer passage section of said at least two passage sections and/or said reaction passage section heat exchanges with said main heat transfer passage section in counterflow.

89. (New) Catalytic device according to claim 87, wherein a cross-sectional area of said reaction passage section is between 0.5 and 100 times a cross-sectional area of said main heat transfer passage section and/or said inlet or outlet passage sections are between 0.5 and 100 times, the cross-sectional area of said main heat transfer passage section.

90. (New) Catalytic device according to claim 87, wherein a cross-sectional area of the main heat transfer passage section is between 0.5 and 10 times the cross-sectional area of the inlet (2) of the catalytic device, said inlet pipe being an exhaust pipe for a connected internal combustion engine.

91. (New) Catalytic device according to claim 87, wherein said at least one passage sections comprises one or more substantially parallel pipes.

92. (New) Catalytic device according to claim 91, wherein said main heat transfer passage section is integrated as a number of pipes in said reaction passage section and/or said number of pipes is between 20 and 5000 pipes.

93. (New) Catalytic device according to claim 91, wherein said pipes form symmetrical patterns comprising triangular, quadrangular or similar patterns or random patterns, said pipes are surrounded by catalytic material deposited on one or more carrier means and/or said pipes comprise a circular, an oval, a triangular, a four-sided or any similar regular or irregular cross sectional shape.

94. (New) Catalytic device according to claim 93, wherein said catalytic material is deposited on said one or more carrier means in at least one of said at least one passage sections.

95. (New) Catalytic device according to claim 94, wherein said one or more carrier means are made in metal, ceramic, glass or other heat resistant materials or combinations of the mentioned materials.

96. (New) Catalytic device according to claim 94, wherein said one or more carrier means include at least one shape comprising at least one of spherical, cylindrical, quadrangular, saddle, ring, regular or irregular shapes.
97. (New) Catalytic device according to claim 94, wherein said one or more carrier means include a number of regular or irregular pellets or balls in layers across one of said passage sections, each layer being positioned perpendicularly between two adjacent pipes, and each of said layers comprising 2 to 6 pellets.
98. (New) Catalytic device according to claim 94, wherein said reaction passage section of said at least one passage sections comprises one or more kinds of said catalytic material deposit on said carrier means.
99. (New) Catalytic device according to claim 94, wherein said catalytic material includes metal oxides comprising at least one of Gold (Au), Platinum (Pt), Silver (Ag), Aluminium (Al), Lead (Pb), Zirconium (Zr), Copper (Cu), Cobalt (Co), Nickel (Ni), Iron (Fe), Cerium (Ce), Chrome (Cr), Tin (Sn), Manganese (Mn) and Rhodium (Rh) Oxides or combinations thereof.